



A RICOH COMPANY

Lanier Worldwide, Inc.  
2300 Parklake Drive, NE  
Atlanta, GA USA 30345-2979

# MATERIAL SAFETY DATA SHEET

Emergency Telephone: 800-551-3087

## Section 1: Chemical Product and Company Information

Identity:	<b>Black Developer for 5235</b>	MSDS No.:	<b>CP- 696</b>
Product ID:	480-0020	Issued:	02/27/2007
Synonyms & Common Names:	Black Developer	Supersedes:	<b>02/06/2004</b>
		Date:	<b>02/27/2007</b>
Uses:	Lanier 5235, 5245, 5435, 5445	Prepared by:	<b>EH&amp;S Department 770-496-9500</b>
Chemical Formula:	Mixture	Approved by:	Larry Choskey, Health & Safety Manager

## Section 2: Composition / Information on Ingredients

	PERCENT	CAS No.	EXPOSURE LIMITS	SOURCE
Iron oxide	97.0	1317-61-9	Not listed	n/a
Polyester resin	2.0	Confidential	Not listed	n/a
Styrene acrylic polymer	< 1	26655-10-7	Not listed	n/a
Carbon black	< 1	1333-86-4	3.5mg/m <sup>3</sup> 3.5mg/m <sup>3</sup>	OSHA PEL ACGIH TWA
Dye	< 1	31714-55-3	Not listed	n/a

## Section 3: Hazards Identification

**HMIS Rating:**  
 FLAMMABILITY = 1 HEALTH = 1  
 REACTIVITY = 0 SPECIAL = none

**Health Hazards (Acute, Chronic, Immediate and Potential):** Minimum irritation to respiratory tract may occur as with exposure to any non-toxic dust. May cause gasping if inhaled. Inhalation should be avoided. May cause temporary eye discomfort.

**Health Hazards of Long Term exposure (Chronic):** A manufacturer sponsored chronic inhalation study in rats using a special test toner revealed there were no lung changes at all in the lowest exposure level (1mg/m<sup>3</sup>), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4mg/m<sup>3</sup>), while a slight degree of fibrosis was observed at the highest exposure level (16mg/m<sup>3</sup>) in all animals. These findings are attributed to "Lung Overloading", a generic response to excessive amount of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toner to comply with EPA testing protocol and would not function properly in Xerographic equipment.

Carbon Black is listed on the IARC Monograph and the Massachusetts Substance List. The IARC has evaluated the evidence for the carcinogenicity of Carbon Black as inadequate to determine a carcinogenic risk for humans.

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

## Section 4: First Aid Measures

<b>Inhalation:</b>	Remove to fresh air if effects occur. Get medical attention if needed.	<b>Eye Contact:</b>	In case of contact, immediately flush eyes with water for 5 minutes. Get medical attention if needed.
<b>Skin Contact:</b>	Wash with soap and water.	<b>Ingestion:</b>	Dilute stomach contents with several glasses of water. Get medical attention.

## Section 5: Fire Fighting Measures

Suitable extinguishing media: CO<sub>2</sub>, dry chemical, foam or water.  
 Extinguishing media which may not be used for safety reasons: none

This material will burn in case of fire. The decomposition products are CO, CO<sub>2</sub>, and No<sub>x</sub>. Avoid inhalation of smoke.  
 Special protective equipment for fire fighters: none  
 UEL: n/a LEL: n/a

## Section 6: Accidental Release Measures

No special precaution.

## Section 7: Handling and Storage

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Special Handling: Cleanse skin after contact before breaks or meals, and end of workday.  
Special Storage: Avoid direct sunlight. Keep out of reach of children. Store in a cool, dry place.

## Section 8: Exposure Control and Personal Protection Information:

Respiratory Protection: none required under normal use. Hand Protection: none required under normal use.  
Eye Protection: none required under normal use. Skin Protection: none required under normal use.

## Section 9: Physical and Chemical Properties

### CHARACTERISTICS:

Appearance:	Black	Melting point:	n/a
Form:	Powder	Vapor pressure:	n/a
Odor:	Slight plastic odor	Vapor density:	n/a
Solubility in Water:	Insoluble	Evaporation rate:	n/a
Bulk density:	~1.8	Boiling point:	n/a

## Section 10: Stability and Reactivity

Conditions to avoid: none Materials to avoid: none Stability: Stable  
Hazardous decomposition products: CO and CO2 and other decomposition products when burned.

## Section 11: Toxicological Information:

Ames test negative

## Section 12: Environmental / Ecological Information

None.

## Section 13: Disposal Consideration

Used developer should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Disposal regulations vary from locality to locality, therefore consult your local Lanier office or the EPA to determine the proper method for disposal. Do not incinerate loose or spilled developer.

## Section 14: Transportation Information

None. This is not a hazardous product.

## Section 15: Regulatory Information

None.

## Section 16: Miscellaneous Information

Judgment as to the suitability of information contained herein for user's purposes is the responsibility of the purchaser. Therefore, although reasonable care has been taken in the preparation of this information, Lanier Worldwide, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to user's intended purposes or for consequences of its use. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards that exist.

*Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. On the basis of the data available to us, this developer is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.*